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THOMSON

Application Number	Filed
08/376327	1/20/95

Paper No. 38

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US 5843780A

United States Patent [19]

Thomson

[11] Patent Number: 5,843,780

[45] Date of Patent: Dec. 1, 1998

[54] **PRIMATE EMBRYONIC STEM CELLS**

[75] Inventor: **James A. Thomson**, Madison, Wis.

[73] Assignee: **Wisconsin Alumni Research Foundation**, Madison, Wis.

[21] Appl. No.: **591,246**

[22] Filed: **Jan. 18, 1996**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 376,327, Jan. 20, 1995.

[51] **Int. Cl.**[6] **C12N 5/06**

[52] **U.S. Cl.** **435/363**; 435/366; 435/373

[58] **Field of Search** 435/363, 366, 435/373

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[57] **ABSTRACT**

A purified preparation of primate embryonic stem cells is disclosed. This preparation is characterized by the following cell surface markers: SSEA-1 (–); SSEA-3 (+); SSEA-4 (+); TRA-1-60 (+); TRA-1-81 (+); and alkaline phosphatase (+). In a particularly advantageous embodiment, the cells of the preparation have normal karyotypes and continue to proliferate in an undifferentiated state after continuous culture for eleven months. The embryonic stem cell lines also retain the ability, throughout the culture, to form trophoblast and to differentiate into all tissues derived from all three embryonic germ layers (endoderm, mesoderm and ectoderm). A method for isolating a primate embryonic stem cell line is also disclosed.

11 Claims, 8 Drawing Sheets